

## PATENT CLAIMS

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1. A casting mould formed of base (2), wall (4,5) and end plates (6) for manufacturing of a pyrometallurgical reactor cooling element, characterized in that the casting mould (1) made of copper plates is at least partly equipped with cooling pipes (3) and that the mould is lined on the inside with a plate (7) resistant to high temperatures.
2. A casting mould according to claim 1, characterized in that the casting mould (1) is lined with graphite plates (7).
3. A casting mould according to claim 1, characterized in that the plates (7) resistant to high temperatures are fixed to the surface of the mould (1) by means of underpressure.
4. A casting mould according to claim 1 characterized in that shaped pieces (9) made of graphite or fire-resistant material are placed on the base of the casting mould (1).
5. A pyrometallurgical reactor cooling element fabricated in a mould, characterized in that cooling pipes (8), placed inside cooling element (10) are manufactured of nickel copper.
6. A cooling element according to claim 5, characterized in that during manufacturing of the cooling element (10), one side of the element (11) is formed by means of shaped pieces (9) placed on the base of the casting mould.